

ITW



**POWER OF ATTORNEY
 and
 CORRESPONDENCE ADDRESS
 INDICATION FORM**

Application Number	10/623,810
Filing Date	07/22/03
First Named Inventor	Wun Chey Sin
Title	Amplification and Overexpression of Oncogenes
Art Unit	1642
Examiner Name	Misook Yu
Attorney Docket Number	006539.00050

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

☒ Practitioners associated with the Customer Number: 22907

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

OR

<input type="checkbox"/> Firm or Individual Name					
Address					
Address					
City		State		ZIP	
Country					
Telephone		Fax			

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
 Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	Stuart Z. Watt Vice President, Law		
Signature			
Date	July 13 2005	Telephone	805-447-1000

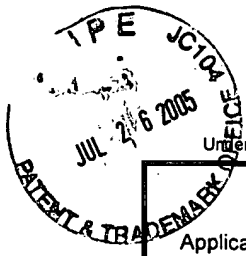
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T02-006-1-1/US

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Amgen Inc.Application No./Patent No.: 10/623,810Filed/Issue Date: July 22, 2003Entitled: Amplification and Overexpression of OncogenesAmgen Inc., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest

The extent (by percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Wun Chey Sin, Jianxin YangTo: Tularik Inc.The document was recorded in the United States Patent and Trademark Office at Reel 015245, Frame 0509, or for which a copy thereof is attached.2. From: Tularik Inc.To: Arrow Acquisition, LLCThe document was recorded in the United States Patent and Trademark Office at Reel TBD*, Frame TBD*, or for which a copy thereof is attached.3. From: Arrow Acquisition, LLCTo: Amgen SF, LLCThe document was recorded in the United States Patent and Trademark Office at Reel TBD*, Frame TBD*, or for which a copy thereof is attached.

- ☒ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

(NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

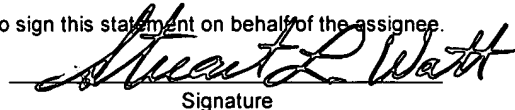
The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

July 13 2005

Date

805-447-1000

Telephone Number



Signature

Stuart L. Watt

Typed or printed name

Vice President, Law of Amgen Inc.

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



APPENDIX A

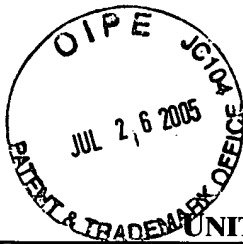
Continuation of Chain of Title to Current Assignee:

4. From: Amgen SF, LLC

To: Amgen Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel TBD*, Frame TBD, or for which a copy thereof is attached.

TBD* - Recently Filed – To be determined



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

OCTOBER 15, 2004

PTAS

HELLER, EHRMAN, WHITE ET AL.
JOHN P. ISACSON
1666 K STREET, N.W., SUITE 300
WASHINGTON, D.C 20006



102729937A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/21/2004

REEL/FRAME: 015245/0509
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SIN, WUN CHEY

DOC DATE: 02/06/2004

ASSIGNOR:

YANG, JIANXIN

DOC DATE: 02/06/2004

ASSIGNEE:

TULARIK INC.
1120 VETERANS BOULEVARD
SOUTH SAN FRANCISCO, CALIFORNIA

94080

SERIAL NUMBER: 10623810

FILING DATE: 07/22/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: AMPLIFICATION AND OVEREXPRESSION OF ONCOGENES

015245/0509 PAGE 2

JEEVON JONES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



FORM PT-100
Expires 06/30/99
OMR 0651-0027

04-26-2004



U.S. Department of Commerce
Patent and Trademark Office
PATENT

102729937
**RECORDATION FORM COVER SHEET
PATENTS ONLY**

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

- ☒ New
☐ Resubmission (Non-Recordation)
☐ Document ID #
☐ Correction of PTO Error
☐ Reel # Frame #
☐ Corrective Document
☐ Reel # Frame #

Conveyance Type

- ☒ Assignment
☐ License
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other

U.S. Government

(For Use ONLY by U.S. Government Agencies)

- ☐ Departmental File ☐ Secret File

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Name (line 1)

Execution Date
Month Day Year
02 06 2004

Name (line 2)

Second Party

Name (line 1)

Execution Date
Month Day Year
02 06 2004

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

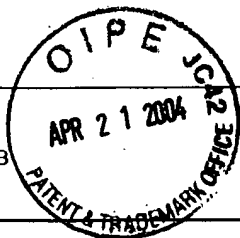
Address (line 4)

FOR OFFICE USE ONLY

04/23/2004 HGETACHE 00000129 10623810

01 FC:8021

40.00 OP



Correspondent Name and Address

Area Code and Telephone Number

(202) 912-2000

Name John P. Isacson

Address (line 1) HELLER EHRMAN WHITE & MCAULIFFE

Address (line 2) 1666 K Street, N.W., Suite 300

Address (line 3) Washington, D.C. 20006

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document
including any attachments

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached.

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

10/623.810

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was
signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number
only if a U.S. Application
Number as not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

Method of Payment:

Enclosed ☒

Deposit Account ☐

Deposit Account

Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

08-1641

Authorization to charge additional fees:

Yes ☐

No ☐

Statement and Signature

*To the best of my knowledge and belief, the foregoing information is true and correct and any
attached copy is a true copy of the original document. Charges to deposit account are authorized, as
indicated herein.*

John P. Isacson, Reg. No. 33,715
Customer No. 26633

Name of Person Signing

Signature

April 21, 2004

Date

ASSIGNMENT AND AGREEMENT

WHEREAS, Wun Chey SIN and Jianxin YANG (hereinafter referred to singly and collectively as "ASSIGNOR") have invented a certain invention entitled **AMPLIFICATION AND OVEREXPRESSION OF ONCOGENES** for which an application for United States Letters Patent was filed on **July 22, 2003** as Application No. **10/623,810**; and

WHEREAS, Tularik Inc., having its principal place of business at **1120 Veterans Boulevard, South San Francisco, CA 94080** (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein;

NOW THEREFORE, in view of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

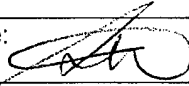
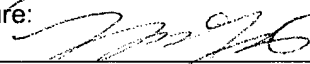
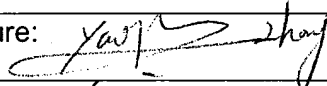
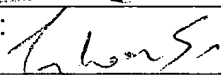
ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and

transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Heller Ehrman White & McAuliffe** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Heller Ehrman White & McAuliffe** do not personally represent ASSIGNOR or ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAMES AND SIGNATURES OF INVENTORS		
Name: Wun Chey SIN	Signature: 	Date: 2-6-04
Name: Jianxin YANG	Signature: 	Date: 2-6-04
NAMES AND SIGNATURES OF WITNESSES		
Name: Yaoping zhang	Signature: 	Date: 2-6-04
Name: Lei Hoon See	Signature: 	Date: 2/6/04



Form PTO-1595 (Rev. 03/05)
OMB No. 0651-0027 (exp. 6/30/2009)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

TULARIK INC.

2. Name and address of receiving party(ies)

Name: ARROW ACQUISITION, LLC

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) AUGUST 13, 2004

- ☐ Assignment ☒ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

Street Address: ONE AMGEN CENTER DRIVE

City: THOUSAND OAKS

State: CALIFORNIA

Country: USA Zip: 91320-1799

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

SEE ATTACHED LIST

SEE ATTACHED LIST

Additional numbers attached? ☒ Yes ☐ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Olga Mekhovich

Internal Address: Amgen Inc.

Street Address: 1120 Veterans Boulevard

City: South San Francisco

State: California Zip: 94080

Phone Number: 650-244-2000

Fax Number: 650-244-2392

Email Address: omekhovi@amgen.com

6. Total number of applications and patents involved: 399

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 15,960.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 01-0519

Authorized User Name Amgen Inc.

9. Signature:

Signature

June 7, 2005

Date

Olga Mekhovich

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

12

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**LIST OF U.S. APPLICATIONS AND PATENTS
MERGER OF TULARIK INC. AND ARROW ACQUISITION, LLC**

File No	Ctry	Application No.	Application Date	Grant No.	Grant Date
T00-001	US	60/201,601	3-May-00		
T00-001-1	US	09/848,990	3-May-01		
T00-002	US	60/186,047	1-Mar-00		
T00-003	US	09/524,435	13-Mar-00	6,365,366	2-Apr-02
T00-004	US	60/194,911	5-Apr-00		
T00-004-1	US	09/827,837	4-Apr-01	6,673,543	6-Jan-04
T00-004-2	US	10/749,530	30-Dec-03		
T00-005	US	60/201,613	3-May-00		
T00-005-1	US	09/847,887	2-May-01	6,653,332	25-Nov-03
T00-005-2	US	10/456,932	5-Jun-03		
T00-006	US	60/246,876	8-Nov-00		
T00-006-1	US	10/008,244	7-Nov-01	6,884,782	26-Apr-05
T00-006-1-1	US	11/014,344	14-Dec-04		
T00-007	US	60/243,581	26-Oct-00		
T00-007-1	US	10/004,287	23-Oct-01	6,846,834	25-Jan-05
T00-007-2	US	10/928,784	26-Aug-04		
T00-008	US	60/194,912	5-Apr-00		
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T00-009	US	60/230,585	5-Sep-00		
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T00-009-2	US	60/265,215	30-Jan-01		
T00-009-3	US	09/945,293	31-Aug-01	6,777,446	17-Aug-04
T00-009-4	US	10/794,228	4-Mar-04		
T00-010	US	60/198,465	18-Apr-00		
T00-011	US	60/204,234	15-May-00		
T00-011-1	US	09/837,992	18-Apr-01		
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T00-013	US	60/213,461	23-Jun-00		
T00-013-1	US	09/891,138	25-Jun-01		
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T00-014-3	US	10/719,997	20-Nov-03		
T00-015	US	60/257,831	20-Dec-00		
T00-016	US	60/239,464	10-Oct-00		
T00-017	US	60/255,241	11-Dec-00		
T00-017-1	US	60/296,499	6-Jun-01		
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T00-017-3	US	10/164,690	6-Jun-02	6,794,379	21-Sep-04
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T00-019-1	US	10/041,030	28-Dec-01		
T00-020	US	60/254,030	6-Dec-00		
T00-020-1	US	60/261,134	11-Jan-01		
T00-020-2	US	10/010,740	5-Dec-01		
T00-021	US	60/308,027	25-Jul-01		
T00-022	US	60/265,001	29-Jan-01		
T00-023	US	60/245,878	3-Nov-00		

T00-023-1	US	10/052,905	2-Nov-01	6,822,001	23-Nov-04
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T00-024-2	US	09/989,981	20-Nov-01	6,821,750	23-Nov-04
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T00-025-2	US	11/038,360	18-Jan-05		
T00-026	US	60/257,636	22-Dec-00		
T00-026-1	US	60/279,554	28-Mar-01		
T00-027	US	60/267,615	8-Feb-01		
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T00-029-1	US	60/280,696	29-Mar-01		
T00-030	US	60/267,644	8-Feb-01		
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T00-031-1	US	10/078,246	14-Feb-02		
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T01-001-1	US	10/094,417	8-Mar-02		
T01-002	US	09/802,803	9-Mar-01		
T01-003	US	60/268,362	14-Feb-01		
T01-003-1	US	10/073,123	12-Feb-02		
T01-004	US	60/268,361	14-Feb-01		
T01-004-1	US	10/073,060	12-Feb-02		
T01-005	US	09/850,948	7-May-01		
T01-005-2	US	10/273,575	18-Oct-02		
T01-006	US	09/782,535	13-Feb-01		
T01-009	US	60/288,665	4-May-01		
T01-009-1	US	10/138,279	3-May-02	6,858,619	22-Feb-05
T01-009-2	US	10/289,933	6-Nov-02	6,809,104	26-Oct-04
T01-009-3	US	10/928,029	26-Aug-04		
T01-010	US	60/293,781	23-May-01		
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T01-010-1-1	US	10/654,112	2-Sep-03		
T01-010-2	US	10/155,605	22-May-02		
T01-012	US	60/302,193	29-Jun-01		
T01-012-1	US	10/481,218	12-Jul-04		
T01-013	US	60/302,800	3-Jul-01		
T01-013-1	US	10/188,405	1-Jul-02		
T01-014	US	60/314,655	27-Aug-01		
T01-014-1	US	60/330,797	31-Oct-01		
T01-014-2	US	60/340,863	19-Dec-01		
T01-014-3	US	60/375,027	25-Apr-02		
T01-014-4	US	10/228,264	27-Aug-02		
T01-014-5	US	10/228,263	27-Aug-02		
T01-015	US	60/337,745	7-Nov-01		
T01-015-1	US	10/290,088	6-Nov-02		
T01-016	US	60/322,556	14-Sep-01		
T01-016-1	US	60/335,434	30-Nov-01		
T01-016-2	US	60/378,627	7-May-02		

T01-016-3	US	60/386,833	6-Jun-02		
T01-016-4	US	10/244,063	13-Sep-02	6,869,975	22-Mar-05
T01-016-4-1	US	10/939,918	20-Aug-04		
T01-017	US	60/327,818	9-Oct-01		
T01-017-1	US	10/268,412	9-Oct-02		
T01-018	US	60/329,043	11-Oct-01		
T01-018-1	US	10/269,216	11-Oct-02		
T01-019	US	60/329,691	12-Oct-01		
T01-019-1	US	10/269,463	11-Oct-02		
T01-020	US	60/335,400	30-Oct-01		
T01-021	US	60/331,394	15-Nov-01		
T01-021-1	US	10/287,806	5-Nov-02		
T01-022	US	60/337,460	5-Dec-01		
T01-022-1	US	10/314,428	4-Dec-02		
T01-023	US	60/353,497	30-Jan-02		
T01-023-1	US	10/354,922	29-Jan-03		
T01-024	US	60/341,436	20-Dec-01		
T01-024-1	US	10/318,410	13-Dec-02		
T01-025	US	60/349,783	16-Jan-02		
T01-025-1	US	10/340,378	10-Jan-03		
T01-026	US	60/353,496	30-Jan-02		
T01-026-1	US	10/354,923	29-Jan-03		
T02-001	US	60/365,206	19-Mar-02		
T02-002	US	60/365,192	19-Mar-02		
T02-002-1	US	10/390,191	18-Mar-03		
T02-003	US	60/382,606	24-May-02		
T02-003-1	US	60/398,099	25-Jul-02		
T02-003-1-1	US	10/443,108	22-May-03		
T02-004	US	60/381,407	17-May-02		
T02-004-1	US	60/393,685	2-Jul-02		
T02-004-1-1	US	10/440,039	16-May-03		
T02-004-2	US	60/424,093	5-Nov-02		
T02-004-2-1	US	10/703,145	5-Nov-03		
T02-004-3	US	60/474,124	28-May-03		
T02-005	US	60/368,975	2-Apr-02		
T02-006	US	60/401,342	7-Aug-02		
T02-006-1	US	60/434,381	19-Dec-02		
T02-006-1-1	US	10/623,810	22-Jul-03		
T02-007	US	60/408,665	5-Sep-02		
T02-007-1	US	10/652,874	28-Aug-03		
T02-008	US	60/412,300	20-Sep-02		
T02-008-1	US	60/422,593	31-Oct-02		
T02-008-2	US	60/422,531	31-Oct-02		
T02-008-3	US	10/665,986	19-Sep-03		
T02-008-4	US	10/666,857	19-Sep-03		
T02-009	US	60/413,335	24-Sep-02		
T02-009-1	US	10/669,606	23-Sep-03		
T02-010	US	60/427,202	19-Nov-02		
T02-010-1	US	60/434,434	19-Dec-02		
T02-010-1-1	US	10/715,117	18-Nov-03		
T02-011	US	60/421,142	25-Nov-02		
T02-011-1	US	60/444,153	30-Jan-03		

T02-011-2	US	10/719,692	21-Nov-03		
T02-012	US	60/428,600	22-Nov-02		
T02-012-1	US	10/720,844	21-Nov-03		
T02-013	US	60/424,456	6-Nov-02		
T02-013-1	US	10/705,173	6-Nov-03		
T02-014	US	60/435,281	23-Dec-02		
T02-014-1	US	10/742,442	22-Dec-03		
T02-015	US	60/459,884	1-Apr-03		
T02-016	US	60/435,366	20-Dec-02		
T02-016-1	US	10/742,281	19-Dec-03		
T03-001	US	60/437,816	3-Jan-03		
T03-002	US	60/451,157	27-Feb-03		
T03-002-1	US	10/789,165	26-Feb-04		
T03-003	US	60/470,330	13-May-03		
T03-003-1	US	10/845,485	12-May-04		
T03-004	US	60/493,997	7-Aug-03		
T03-004-1	US	10/913,307	6-Aug-04		
T03-006	US	60/460,006	4-Apr-03		
T03-006-1	US	10/807,415	24-Mar-04		
T03-007	US	60/462,702	15-Apr-03		
T03-007-1	US	10/817,418	5-Apr-04		
T03-008	US	60/517,218	31-Oct-03		
T03-008-1	US	60/518,258	6-Nov-03		
T03-008-2	US	10/978,221	29-Oct-04		
T03-009	US	60/531,924	22-Dec-03		
T03-010	US	60/515,537	28-Oct-03		
T03-011	US	60/479,833	20-Jun-03		
T03-011-1	US	10/867,183	15-Jun-04		
T03-012	US	60/494,692	12-Aug-03		
T03-012-1	US	10/916,868	11-Aug-04		
T03-013	US	60/485,978	9-Jul-03		
T03-013-1	US	10/887,341	7-Jul-04		
T03-014	US	60/508,470	3-Oct-03		
T03-014-1	US	10/956,251	1-Oct-04		
T03-015	US	60/523,463	12-Dec-03		
T03-016	US	60/524,050	24-Nov-03		
T04-001	US	60/583,682	29-Jun-04		
T04-002	US	60/583,898	29-Jun-04		
T04-003	US	60/548,741	27-Feb-04		
T04-003-1	US	60/601,579	12-Aug-04		
T04-005	US	60/601,578	12-Aug-04		
T04-006-1	US	60/598,037	2-Aug-04		
T04-008	US	60/564,376	20-Apr-04		
T04-009	US	60/551,656	8-Mar-04		
T04-010	US	60/556,013	23-Mar-04		
T04-011	US	60/563,251	14-Apr-04		
T04-012	US	60/583,823	28-Jun-04		
T04-013	US	60/583,901	28-Jun-04		
T04-014	US	60/583,822	28-Jun-04		
T04-016	US	60/601,223	13-Aug-04		
T92-001	US	07/989,842	4-Dec-92		
T92-001-1	US	08/046,585	12-Apr-93	5,453,362	26-Sep-95

T92-001-2	US	08/393,703	24-Feb-95	5,585,239	17-Dec-96
T94-001	US	08/235,503	29-Apr-94	5,563,036	8-Oct-96
T94-002	US	08/246,977	20-May-94		
T94-002-1	US	08/704,398	17-Jul-96	5,679,525	21-Oct-97
T94-003	US	08/270,653	5-Jul-94		
T94-003-1	US	08/396,479	2-Mar-95	5,612,455	18-Mar-97
T94-003-2	US	08/818,823	14-Mar-97	5,708,158	13-Jan-98
T94-004	US	08/269,604	15-Jul-94		
T94-004-1	US	08/276,099	15-Jul-94	5,591,825	7-Jan-97
T94-004-2	US	08/781,890	5-Jan-97	5,710,266	20-Jan-98
T94-005	US	08/348,797	2-Dec-94	5,635,349	3-Jun-97
T95-001	US	08/393,333	23-Feb-95	5,618,693	8-Apr-97
T95-002	US	08/408,318	22-Mar-95	5,639,858	17-Jun-97
T95-002-1	US	08/839,164	23-Apr-97	5,756,700	26-May-98
T95-003	US	08/414,625	31-Mar-95	5,563,039	8-Oct-96
T95-004	US	08/494,006	23-Jun-95		
T95-004-1	US	08/587,889	16-Jan-96	5,654,397	5-Aug-97
T95-005	US	08/512,946	8-Aug-95		
T95-005-1	US	08/569,749	8-Dec-95	6,187,557	13-Feb-01
T95-005-2	US	09/689,366	12-Oct-00	6,821,736	23-Nov-04
T95-005-3	US	10/232,286	30-Aug-02	6,855,815	15-Feb-05
T95-005-4	US	10/934,717	3-Sep-04		
T95-006	US	08/553,727	23-Oct-95		
T95-006-1	US	09/132,118	11-Aug-98	6,211,337	3-Apr-01
T95-006-2	US	09/758,003	9-Jan-01		
T95-007	US	08/558,545	16-Nov-95	5,698,389	16-Dec-97
T96-001	US	08/605,431	22-Feb-96		
T96-001-1	US	60/022,198	17-Jul-96		
T96-001-2	US	08/896,827	18-Jul-97	5,880,151	9-Mar-99
T96-001-2A	US	09/227,216	6-Jan-99	6,121,304	19-Sep-00
T96-001-2A-1	US	09/633,740	7-Aug-00	6,316,484	13-Nov-01
T96-001-2A-1-2	US	09/972,743	5-Oct-01		
T96-001-3	US	08/896,280	18-Jul-97	6,482,860	19-Nov-02
T96-001-3-1	US	10/270,259	11-Oct-02		
T96-001-4	US	08/917,025	22-Aug-97	6,284,923	4-Sep-01
T96-001-5	US	09/872,463	31-May-01	6,388,131	14-May-02
T96-002	US	08/616,046	14-Mar-96	5,705,344	6-Jan-98
T96-003	US	60/013,981	22-Mar-96		
T96-003-1	US	08/823,051	21-Mar-97	5,866,760	2-Feb-99
T96-004	US	08/639,237	19-Apr-96	5,710,013	20-Jan-98
T96-004-1	US	08/975,405	20-Nov-97	5,767,244	16-Jun-98
T96-005	US	08/676,967	8-Jul-96	5,747,317	5-May-98
T96-005-1	US	09/072,270	4-May-98	5,888,747	30-Mar-99
T96-006	US	08/677,862	10-Jul-96	5,874,230	23-Feb-99
T96-006-1	US	09/252,571	18-Feb-99	5,981,250	9-Nov-99
T96-006-2	US	09/434,065	5-Nov-99	6,107,074	22-Aug-00
T96-007	US	08/702,970	26-Aug-96	5,759,787	2-Jun-98
T96-008(B)	US	60/055,712	12-Aug-97		
T96-008(C)	US	09/381,829	24-Sep-99	6,159,974	12-Dec-00
T96-009	US	08/707,408	4-Sep-96	5,780,258	14-Jul-98
T96-009-1	US	09/114,552	13-Jul-98	6,432,654	13-Aug-02
T97-001	US	08/795,088	5-Feb-97	6,242,569	5-Jun-01

T97-001-1	US	09/861,270	18-May-01		
T97-002	US	08/812,533	7-Mar-97	5,837,514	17-Nov-98
T97-002-1	US	08/971,937	17-Nov-97	5,776,717	7-Jul-98
T97-003	US	08/846,012	25-Apr-97	5,807,740	15-Sep-98
T97-003-1	US	09/100,297	19-Jun-98	5,849,514	15-Dec-98
T97-004	US	08/866,942	31-May-97	6,566,089	20-May-03
T97-004-1	US	10/365,958	13-Feb-03		
T97-005	US	08/882,606	25-Jun-97		
T97-006	US	08/887,114	1-Jul-97		
T97-006-1	US	08/890,853	10-Jul-97	5,851,812	22-Dec-98
T97-006-2	US	09/099,124	17-Jun-98	5,939,302	17-Aug-99
T97-006-3	US	09/099,125	17-Jun-98	5,916,760	29-Jun-99
T97-007	US	08/887,115	1-Jul-97		
T97-007-1	US	08/890,854	10-Jul-97	6,235,512	22-May-01
T97-007-2	US	09/023,324	13-Feb-98	6,235,513	22-May-01
T97-007-3	US	09/032,476	26-Feb-98	6,235,492	22-May-01
T97-007-4	US	09/109,986	2-Jul-98	6,479,266	12-Nov-02
T97-007-5	US	10/243,408	13-Sep-02		
T97-008	US	08/887,518	3-Jul-97	5,843,721	1-Dec-98
T97-008-1	US	09/023,321	13-Feb-98	5,844,073	1-Dec-98
T97-008-2	US	09/032,475	26-Feb-98	5,854,003	29-Dec-98
T97-009	US	08/937,466	25-Sep-97	5,846,779	8-Dec-98
T97-009-1	US	09/172,528	14-Oct-98	5,952,469	14-Sep-99
T97-009-2	US	09/318,199	25-May-99	6,025,469	15-Feb-00
T97-009-3	US	09/503,579	14-Feb-00	6,248,561	19-Jun-01
T97-010	US	08/948,277	9-Oct-97	5,849,581	15-Dec-98
T97-010-1	US	09/169,203	9-Oct-98	5,976,808	2-Nov-99
T97-011	US	08/971,244	16-Nov-97	5,891,719	6-Apr-99
T97-011-1	US	09/286,891	6-Apr-99	6,172,195	9-Jan-01
T97-012	US	08/975,614	21-Nov-97	6,555,326	29-Apr-03
T97-012-1	US	09/163,713	30-Sep-98		
T97-013	US	60/067,708	8-Dec-97		
T97-013-1	US	09/132,619	11-Aug-98	5,958,697	28-Sep-99
T97-013-2	US	09/282,803	31-Mar-99	6,027,901	22-Feb-00
T97-013-3	US	09/510,654	22-Feb-00	6,297,019	2-Oct-01
T97-014	US	08/991,944	16-Dec-97	6,280,955	28-Aug-01
T98-001	US	60/075,005	17-Feb-98		
T98-001-1	US	09/249,641	12-Feb-99	6,200,977	13-Mar-01
T98-001-1-2	US	09/737,983	15-Dec-00	6,528,513	4-Mar-03
T98-001-1-3	US	10/350,801	24-Jan-03	6,835,726	28-Dec-04
T98-002	US	60/071,137	13-Jan-98		
T98-002-1	US	09/226,703	7-Jan-99	6,191,170	20-Feb-01
T98-002-1-2	US	09/736,040	12-Dec-00	6,583,161	24-Jun-03
T98-003	US	60/073,042	29-Jan-98		
T98-003-1	US	09/234,327	20-Jan-99	6,200,995	13-Mar-01
T98-003-2	US	09/741,415	19-Dec-00	6,620,827	16-Sep-03
T98-003-3	US	10/123,298	15-Apr-02		
T98-004	US	60/075,224	19-Feb-98		
T98-004-1	US	09/247,496	10-Feb-99		
T98-005	US	09/025,979	19-Feb-98	6,153,384	28-Nov-00
T98-006	US	09/037,154	9-Mar-98	5,998,152	7-Dec-99
T98-006-1	US	09/351,662	13-Jul-99	6,197,527	6-Mar-01

T98-007	US	09/052,924	31-Mar-98	6,043,038	28-Mar-00
T98-008	US	09/052,841	31-Mar-98		
T98-009	US	09/052,995	31-Mar-98	6,183,956	6-Feb-01
T98-010	US	09/074,580	7-May-98	5,962,244	5-Oct-99
T98-011	US	09/053,003	31-Mar-98	6,207,391	27-Mar-01
T98-011-1	US	09/818,094	26-Mar-01	6,682,898	27-Jan-04
T98-012	US	60/092,098	8-Jul-98		
T98-012-1	US	09/349,208	7-Jul-99	6,426,331	30-Jul-02
T98-013	US	09/035,676	5-Mar-98	6,437,113	20-Aug-02
T98-013-1	US	09/416,213	8-Oct-99	6,110,690	29-Aug-00
T98-013-2	US	09/416,214	8-Oct-99	6,413,728	2-Jul-02
T98-013-3	US	10/161,346	30-May-02	6,838,550	4-Jan-05
T98-014	US	60/090,681	25-Jun-98		
T98-014-1	US	09/336,062	18-Jun-99		
T98-014-2	US	09/595,398	14-Jun-00	6,211,167	3-Apr-01
T98-014-3	US	09/779,419	7-Feb-01	6,417,176	9-Jul-02
T98-015	US	60/093,570	20-Jul-98		
T98-015-1	US	09/353,976	15-Jul-99	6,153,585	28-Nov-00
T98-015-1-1	US	09/671,937	27-Sep-00	6,630,513	7-Oct-03
T98-016	US	09/124,312	29-Jul-98	6,569,619	20-May-03
T98-017	US	09/130,858	7-Aug-98		
T98-018	US	09/124,293	29-Jul-98		
T98-018-1	US	09/884,814	18-Jun-01		
T98-019	US	09/135,232	17-Aug-98	6,262,228	17-Jul-01
T98-019-1	US	09/863,549	22-May-01	6,576,444	10-Jun-03
T98-020	US	60/100,888	23-Sep-98		
T98-020-1	US	09/399,907	21-Sep-99	6,214,880	10-Apr-01
T98-020-2	US	09/792,669	21-Feb-01	6,583,165	24-Jun-03
T98-020-3	US	10/387,217	11-Mar-03		
T98-021	US	09/178,358	23-Oct-98		
T98-022	US	60/112,613	17-Dec-98		
T98-022-1	US	09/464,217	15-Dec-99	6,433,187	13-Aug-02
T98-023	US	09/213,678	17-Dec-98		
T99-001	US	60/115,249	7-Jan-99		
T99-001-1	US	09/478,948	6-Jan-00	6,465,258	15-Oct-02
T99-001-1-1	US	10/217,293	12-Aug-02		
T99-002	US	60/115,292	8-Jan-99		
T99-002-1	US	09/479,315	6-Jan-00		
T99-003	US	60/116,392	19-Jan-99		
T99-003-1	US	09/484,863	18-Jan-00		
T99-005	US	60/124,525	15-Mar-99		
T99-005-1	US	09/525,861	14-Mar-00	6,316,503	13-Nov-01
T99-006	US	60/142,994	8-Jul-99		
T99-006-1	US	09/612,135	7-Jul-00		
T99-007	US	60/142,720	7-Jul-99		
T99-007-1	US	09/612,117	7-Jul-00		
T99-008	US	60/141,672	30-Jun-99		
T99-008-1	US	09/606,433	28-Jun-00		
T99-008-2	US	10/209,205	30-Jul-02	6,770,648	3-Aug-04
T99-008-3	US	10/810,325	25-Mar-04		
T99-009	US	60/133,268	10-May-99		
T99-009-1	US	09/567,856	9-May-00		

T99-010	US	60/146,436	29-Jul-99		
T99-010-1	US	09/627,041	27-Jul-00	6,355,628	12-Mar-02
T99-011	US	09/377,554	19-Aug-99	6,306,615	23-Oct-01
T99-011-1	US	09/934,025	21-Aug-01		
T99-012	US	60/134,931	19-May-99		
T99-012-1	US	09/575,208	18-May-00		
T99-013	US	60/159,236	13-Oct-99		
T99-013-1	US	09/680,571	6-Oct-00	6,649,593	18-Nov-03
T99-014	US	09/461,508	14-Dec-99	6,458,538	1-Oct-02
T99-014-1	US	10/226,803	21-Aug-02		
T99-015	US	60/161,201	22-Oct-99		
T99-015-1	US	09/694,094	20-Oct-00	6,489,453	3-Dec-02
T99-015-1-1	US	10/308,373	2-Dec-02		
T99-016	US	09/417,559	13-Oct-99	6,372,444	16-Apr-02
T99-017	US	60/186,915	3-Mar-00		
T99-017-1	US	09/798,584	2-Mar-01		
T99-018	US	60/176,395	13-Jan-00		
T99-018-1	US	09/759,595	11-Jan-01	6,818,419	16-Nov-04
T99-018-2	US	10/990,276	15-Nov-04		
T99-019	US	60/175,892	13-Jan-00		
T99-019-1	US	09/759,633	12-Jan-01	6,780,858	24-Aug-04
T99-019-2	US	10/877,408	25-Jun-04		
T99-020	US	60/161,687	26-Oct-99		
T99-020-1	US	60/167,556	23-Nov-99		
T99-020-1-1	US	09/696,733	25-Oct-00		
T99-021	US	60/176,398	13-Jan-00		
T99-021-1	US	09/760,364	12-Jan-01		
T99-022	US	60/176,000	12-Jan-00		
T99-022-1	US	09/757,291	8-Jan-01	6,410,726	25-Jun-02
T99-022-2	US	10/165,773	6-Jun-02	6,599,911	29-Jul-03
T99-023	US	60/201,988	3-May-00		
T99-023-1	US	09/847,962	2-May-01	6,673,923	6-Jan-04
T99-024-1	US	09/524,730	14-Mar-00	6,638,733	28-Oct-03
T99-024-2	US	09/546,986	11-Apr-00	6,635,741	21-Oct-03
T99-024-2-1	US	10/633,894	4-Aug-03		
T99-024-3	US	10/028,521	20-Dec-01		

Delaware

PAGE 1

The First State

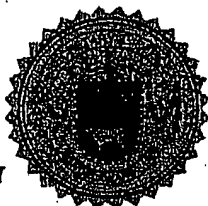
I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"TULARIK INC.", A DELAWARE CORPORATION,

WITH AND INTO "ARROW ACQUISITION, LLC" UNDER THE NAME OF "ARROW ACQUISITION, LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE THIRTEENTH DAY OF AUGUST, A.D. 2004, AT 10:34 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE THIRTEENTH DAY OF AUGUST, A.D. 2004, AT 5 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE KENT COUNTY RECORDER OF DEEDS.



3780036 8100M

040593536

Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3293954

DATE: 08-13-04

**CERTIFICATE OF MERGER
OF
TULARIK INC.
WITH AND INTO
ARROW ACQUISITION, LLC**

Pursuant to Title 8, Section 264(c) of the Delaware General Corporation Law and Title 6, Section 18-209 of the Limited Liability Company Act, the undersigned limited liability company formed and existing under and by virtue of the Delaware Limited Liability Company Act does hereby certify:

1. The constituent business entities participating in the merger herein certified are:

- (i) Tularik Inc., a Delaware corporation; and
- (ii) Arrow Acquisition, LLC, a Delaware limited liability company.

2. The Agreement and Plan of Merger (the "Agreement and Plan of Merger"), dated as of March 28, 2004, by and among Amgen Inc., a Delaware corporation, Arrow Acquisition, LLC and Tularik Inc., has been approved, adopted, certified, executed, and acknowledged by each of the aforesaid constituent entities in accordance with the provisions of subsection (b) of Section 18-209 of the Delaware Limited Liability Company Act and in accordance with the provisions of subsection (c) of Section 264 of the General Corporation Law of the State of Delaware.

3. The name of the surviving limited liability company in the merger herein certified is Arrow Acquisition, LLC.

4. The Certificate of Formation of Arrow Acquisition, LLC, a Delaware limited liability company, as filed with the Secretary of State of Delaware on March 22, 2004, and as now in force and effect, shall continue to be the Certificate of Formation of said surviving limited liability company until amended and changed pursuant to the provisions of the Delaware Limited Liability Company Act.

5. The executed Agreement and Plan of Merger is on file at the principal place of business of the aforesaid surviving limited liability company, the address of which is as follows: One Amgen Center Drive, Thousand Oaks, California 91320-1799.

6. A copy of the aforesaid Agreement and Plan of Merger will be furnished by the aforesaid surviving limited liability company, on request, and without cost, to any stockholder of the constituent Delaware corporation or any member of the constituent surviving limited liability company.

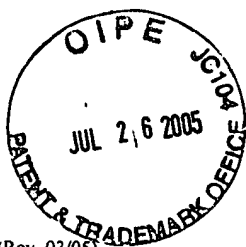
7. The effective time and date of the merger shall be 5:00 p.m. (Eastern Time) on August 13, 2004.

IN WITNESS WHEREOF, said limited liability company has caused this certificate to be signed by an authorized person, this 13th day of August, 2004.

ARROW ACQUISITION, LLC,
a Delaware limited liability company

By: 

Name: David J. Scott
Vice President and Secretary



Form PTO-1595 (Rev. 03/05)
OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

ARROW ACQUISITION, LLC

2. Name and address of receiving party(ies)

Name: AMGEN SF, LLC

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) AUGUST 13, 2004

- ☐ Assignment ☐ Merger
☐ Security Agreement ☒ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

Street Address: 1120 VETERANS BOULEVARD

City: SAN FRANCISCO

State: CALIFORNIA

Country: USA Zip: 94080

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

SEE ATTACHED LIST

SEE ATTACHED LIST

Additional numbers attached? ☒ Yes ☐ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Olga Mekhovich

Internal Address: Amgen Inc.

Street Address: 1120 Veterans Boulevard

City: South San Francisco

State: California Zip: 94080

Phone Number: 650-244-2000

Fax Number: 650-244-2392

Email Address: omekhovi@amgen.com

6. Total number of applications and patents involved: 399

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 15,960.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 01-0519

Authorized User Name Amgen Inc.

9. Signature:

Signature

June 7, 2005

Date

Olga Mekhovich

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

12

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

**AMENDED AND RESTATED CERTIFICATE OF FORMATION
OF
ARROW ACQUISITION, LLC**

August 13, 2004

1. This Amended and Restated Certificate of Formation of Arrow Acquisition, LLC is being duly executed and filed by David J. Scott, as an authorized person, pursuant to Section 18-208 of the Delaware Limited Liability Company Act, to amend and restate the Certificate of Formation of Arrow Acquisition, LLC originally filed on March 22, 2004.

2. The Certificate of Formation of the limited liability company is hereby amended and restated in its entirety to read as follows:

"FIRST. The name of the limited liability company is Amgen SF, LLC.

SECOND. The address of the registered office and the name and the address of the registered agent of the limited liability company required to be maintained by Section 18-104 of the Delaware Limited Liability Company Act are National Registered Agents, Inc., 9 East Loockerman Street, Suite 1B, Dover, Kent County, Delaware 19901."

3. The effective date and time of this Amended and Restated Certificate of Formation shall be August 13, 2004 at 5:01 p.m. Eastern Time.

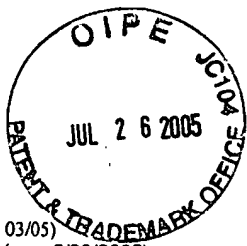
[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned has executed this Amended and Restated
Certificate of Formation as of the date first above written.



David J. Scott
Authorized Person

11



Form PTO-1595 (Rev. 03/05)
OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

AMGEN SF, LLC

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) MAY 19, 2005

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: AMGEN INC.

Internal Address: _____

Street Address: ONE AMGEN CENTER DRIVE

City: THOUSAND OAKS

State: CALIFORNIA

Country: USA

Zip: 91320-1799

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

60/268,362; 10/073,123; 60/314,655; 60/330,797; 60/340,863;
60/375,027; 10/228,264; 10/228,263; 60/331,394; 10/287,806;
60/341,436; 10/318,410; 60/365,192; 10/390,191; 60/382,606;
60/398,099;

B. Patent No.(s)

Additional numbers attached? ☒ Yes ☐ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Olga Mekhovich

Internal Address: Amgen Inc.

Street Address: 1120 Veterans Boulevard

City: South San Francisco

State: California Zip: 94080

Phone Number: 650-244-2000

Fax Number: 650-244-2392

Email Address: omekhovi@amgen.com

6. Total number of applications and patents involved: 22

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 880.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 01-0519

Authorized User Name Amgen Inc.

9. Signature:

Signature

June 7, 2005

Date

Olga Mekhovich

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

WHEREAS, AMGEN SF, LLC (hereinafter "ASF"), a limited liability company incorporated under the laws of the State of Delaware, United States of America, and having a place of business at 1120 Veterans Boulevard, South San Francisco, California 94080, is the assignee of interest of the inventions set forth in U.S. and foreign patents and U.S. and foreign Patent Applications, listed on Appendix A hereto;

WHEREAS, AMGEN INC. (hereinafter "AMGEN"), a corporation organized under the laws of the State of Delaware, United States of America, and having a place of business at One Amgen Center Drive, Thousand Oaks, California 91320-1799, is desirous of acquiring all interest in and to said inventions and to the Patents and Patent Applications listed in Appendix A;

NOW, THEREFORE, be it known to all whom it may concern:

THAT for good and valuable consideration the receipt of which is hereby acknowledged, ASF has and does hereby sell, assign, transfer and set over unto AMGEN, its successors and assigns, the full and exclusive right, title and interest including all rights acquired in foreign countries, in and to said Patents and Patent Applications (listed in Appendix A, attached hereto and incorporated herein by reference), including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, and in and to any and all letters patents to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but for, to and in all other countries; and it has been and is hereby authorized and requested that the appropriate government agencies issue said letters patents to AMGEN, in accordance with this assignment.

THIS 19 day of May 2005.

AMGEN SF, LLC

By: Stuart L. Watt

Name: Stuart L. Watt

Title: Vice President, Law and Intellectual Property

STATE OF CALIFORNIA)

COUNTY OF VENTURA)

On 19 day of May, 2005, before me personally appeared Stuart L. Watt, known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

L. Holtke
Name:
Notary Public

L. HOLTKE



T01-003; T01-014; T01-021; T01-024; T02-002;
T02-003; T02-006; T02-014

APPENDIX A

<u>Country</u>	<u>Appln. No.</u>	<u>Appln. Date</u>	<u>Patent No.</u>	<u>Date of Grant</u>
US	60/268,362	Feb 14 2001		
US	10/073,123	Feb 12 2002		
WO	PCT/US02/03991	Feb 12 2002		
CA	2,438,420	Feb 12 2002		
EP	02723130.7	Feb 12 2002		
US	60/314,655	Aug 27 2001		
US	60/330,797	Oct 31 2001		
US	60/340,863	Dec 19 2001		
US	60/375,027	Apr 25 2002		
US	10/228,264	Aug 27 2002		
WO	PCT/US02/27188	Aug 27 2002		
AU	2002326767	Aug 27 2002		
CA	2,459,183	Aug 27 2002		
EP	02761508.7	Aug 27 2002		
JP	2003-523621	Aug 27 2002		
US	10/228,263	Aug 27 2002		
US	60/331,394	Nov 15 2001		
US	10/287,806	Nov 05 2002		
WO	PCT/US02/35312	Nov 05 2002		
US	60/341,436	Dec 20 2001		
US	10/318,410	Dec 13 2002		
WO	PCT/US02/39927	Dec 13 2002		
AU	2002359697	Dec 13 2002		
CA	2,470,088	Dec 13 2002		
EP	02794250.7	Dec 13 2002		
US	60/365,192	Mar 19 2002		
US	10/390,191	Mar 18 2003		
WO	PCT/US03/08305	Mar 18 2003		
CA	2,479,724	Mar 18 2003		
EP	03716689.9	Mar 18 2003		
US	60/382,606	May 24 2002		
US	60/398,099	Jul 25 2002		
US	10/443,108	May 22 2003		
WO	PCT/US03/16049	May 22 2003		
US	60/401,342	Aug 07 2002		
US	60/434,381	Dec 19 2002		
US	10/623,810	Jul 22 2003		
WO	PCT/US03/22747	Jul 22 2003		
US	60/435,281	Dec 23 2002		
US	10/742,442	Dec 22 2003		

**CONTINUED LIST OF U.S. APPLICATIONS
ASSIGNMENT FROM AMGEN SF, LLC TO AMGEN INC.**

U.S. Application No.

10/443,108;
60/401,342;
60/434,381;
10/623,810;
60/435,281;
10/742,442

**FEE TRANSMITTAL
for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 40.00**Complete if Known**

Application Number	10/623,810
Filing Date	July 22, 2003
First Named Inventor	Wun Chey SIN et al.
Examiner Name	To be assigned
Art Unit	1645
Attorney Docket No.	38002-0054

METHOD OF PAYMENT (check one)☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☐ Deposit Account:Deposit
Account
Number

08-1641 (Docket No. 38002-0054)

Deposit
Account
Name

Heller Ehrman White & McAuliffe LLP

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☐ Charge any additional fee(s) during the pendency of this application☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$)**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims	Extra Claims	Fee from below	Fee Paid
20**	x		
3**	x		
Multiple Dependent			

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)**SUBMITTED BY**

Name (Print/Type) John P. Isacson

Signature

Registration No. 33,715
(Attorney/Agent)

Date April 21, 2004

Complete (if applicable)

Telephone 202-912-2000

Customer No. 26633